# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 10/19/2017 10:03 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/18/2017 09:13 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 25720, Expiration Date: 06/30/2017 (Expired)
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123942 | -1 | 1.60 | 123786 | 1.55 |
| Blue | F | SSC | 125000 | 122695 | -2 | 3.00 | 122977 | 2.77 |
| Blue | E | FITC | 23615 | 22656 | -5 | 2.69 | 1009 | 10.60 |
| Blue | D | PE | 26739 | 26261 | -2 | 2.22 | 942 | 10.30 |
| Blue | B | PerCP-Cy5-5 | 48339 | 47032 | -3 | 3.51 | 1350 | 17.47 |
| Blue | A | PE-Cy7 | 45021 | 44797 | -1 | 5.25 | 683 | 36.85 |
| Red | C | APC | 53064 | 52399 | -2 | 2.86 | 3020 | 9.71 |
| Red | A | APC-Cy7 | 57175 | 56572 | -2 | 2.80 | 1173 | 11.46 |
| Violet | B | V450 | 14728 | 14188 | -4 | 4.25 | 681 | 9.30 |
| Violet | A | V500 | 58621 | 56876 | -3 | 4.02 | 2513 | 6.75 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19607 | 3.20 | 611 | -3 | N/A | N/A | Pass |
| Blue | F | SSC | 60417 | 1.94 | 549 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 113 | 40.12 | 549 | 1 | 0.0196 | 168 | Pass |
| Blue | D | PE | 205 | 30.81 | 539 | 3 | 0.1483 | 261 | Pass |
| Blue | B | PerCP-Cy5-5 | 211 | 45.98 | 637 | 2 | 0.0094 | 74 | Pass |
| Blue | A | PE-Cy7 | 74 | 121.78 | 697 | 4 | 0.0111 | 12 | Pass |
| Red | C | APC | 350 | 28.36 | 601 | 4 | 0.0192 | 57 | Pass |
| Red | A | APC-Cy7 | 128 | 40.81 | 584 | 4 | 0.0052 | 1434 | Pass |
| Violet | B | V450 | 81 | 42.12 | 466 | -4 | 0.0413 | 1583 | Pass |
| Violet | A | V500 | 182 | 22.69 | 493 | -4 | 0.0131 | 165 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.57 | 47.98 - 71.98 | N/A | N/A | -31.41 | -31.07 | 0.93 |
| Blue | 20.34 | 16.27 - 24.41 | 1.26 | 0.99 - 1.49 | 0.00 | 0.00 | 1.34 |
| Red | 16.10 | 13.27 - 19.91 | N/A | N/A | 31.41 | 31.60 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 12737

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments